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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,748	08/19/2003	Joel D. Oxman	58614US002	4133
	7590 05/11/200 TIVE PROPERTIES CO	EXAMINER		
PO BOX 33427 ST. PAUL, MN 55133-3427			WILSON, JOHN J	
S1. PAUL, MIN 33133-3427			ART UNIT	PAPER NUMBER
			3732	
			NOTIFICATION DATE	DELIVERY MODE
			05/11/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
Office Astrono	10/643,748	OXMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	John J. Wilson	3732			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).  Status	DATE OF THIS COMMUN 1.136(a). In no event, however, may a and will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. I reply be timely filed  INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
<u> </u>	January 2007				
· · · · · · · · · · · · · · · · · ·	<ul> <li>✓ Responsive to communication(s) filed on <u>16 January 2007</u>.</li> <li>✓ This action is FINAL.</li> <li>2b) This action is non-final.</li> </ul>				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under					
Disposition of Claims					
<ul> <li>4)</li></ul>					
5) Claim(s) is/are allowed.	awii ilom consideration.	•			
6)⊠ Claim(s) <u>39 and 42-64</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami	ner				
10) The drawing(s) filed on is/are: a) a		by the Examiner			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corre	- · · · · · · · · · · · · · · · · · · ·	• •			
11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority docume	nts have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the pr					
application from the International Bure	au (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a li	st of the certified copies no	t received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application			
Paper No(s)/Mail Date 3/16/07.	6)  Other:				

#### **DETAILED SUPPLEMENTAL ACTION**

This action is supplemental to the Final Rejection mailed March 19, 2007 which is hereby withdrawn. A paper filed by applicant on March 16, 2007 crossed in the mail, and this action further addresses that communication.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 39 and 42-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simor (3585723) in view of Neustadter (3565387), Ivanov et al (4113499) and Wilson (5487663). Simor shows the method step of selecting an article form 10, column 5, lines 53-55, filling the form with a hardenable material, column 6, lines 21-2, placing the form on a tooth, column 6, lines 26-29, hardening the material, column 1, lines 66-71, cementing to the tooth as shown and reshaping the article form in the subject's mouth, column 6, lines 55-58, and column 8, lines 65-71. Simor does not show using an organic composition. Neustadter shows using an organic composition, column 2, lines 40-48. It would be obvious to one of ordinary skill in the art to modify Simor to use an organic composition as shown by Neustadter in order to make use of known plastics for making a tooth form. The above combination does not show using a composition that

contains a surfactant. Ivanov teaches using a surfactant, column 3, lines 4-10, to improve the strength of a disposable mold form. It would be obvious to one of ordinary skill in the art to modify the above combination to include using a composition that includes a surfactant as shown by Ivanov in order to solve the problem of including sufficient strength in a mold form. The above combination does not show the step of removing the form. Wilson teaches that it is known to use a crown form as part of the final crown as taught by Simor, or in the alternative, to remove the form, see the Abstract of Wilson. It would be obvious to one of ordinary skill in the art to modify the above combination to include removing the form as taught by Wilson in order to make use of known alternatives in the art to obtain the desired final dental article. To use a curable or non-curable plastic is an obvious matter of choice in well known plastics to one of ordinary skill in the art.

Claims 45, 46, 48-55, 58 and 60-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simor (3585723) in view of Neustadter (3565387) and Wilson (5487663). Simor shows the method steps of selecting an article form 10, column 5, lines 53-55, having a reservoir as shown and comprising a plastic composition, column 3, line 71, in the form of a self-supporting structure as shown and being sufficiently malleable to be reshaped, column 6, line 11, filling the form with a hardenable material, column 6, lines 21-25, placing the form on a tooth, column 6, lines 26-29, hardening the material, column 1, lines 66-71, cementing to the tooth as shown and reshaping the article form in the subject's mouth, column 6, lines 55-58, and column 8, lines 65-71.

Simor shows using plastic, however, does not show using an organic composition. Neustadter shows using an organic composition, column 2, lines 40-48. It would be obvious to one of ordinary skill in the art to modify Simor to use an organic composition as shown by Neustadter in order to make use of known plastics for making a tooth form. The above combination does not show the step of removing the form. Wilson teaches that it is known to use a crown form as part of the final crown as taught by Simor, or in the alternative, to remove the form, see the Abstract of Wilson. It would be obvious to one of ordinary skill in the art to modify the above combination to include removing the form as taught by Wilson in order to make use of known alternatives in the art to obtain the desired final dental article. As to claim 46, see removing upon completion at column 4, lines 47-56 of Wilson. As to claims 48 and 49, Simor and Neustadter fail to show using a filler material. Wilson teaches using a filler, column 4, lines 40-45. It would be obvious to one of ordinary skill in the art to modify the above combination to include a filler material as shown by Wilson in order to add strength. The same citation also teaches the option of not using a filler. As to claim 51, Neustadter teaches using a curable composition, column 2, lines 40-48. As to claim 52, to use an initiator with a curable composition is very well known. As to claims 53 and 54, to use a non-curable plastic is an obvious matter of choice in well known plastics to one of ordinary skill in the art.

Claims 47 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simor (3585723) in view of Neustadter (3565387) and Wilson (5487663) as

applied to claim 45 above, and further in view of Ivanov et al (4113499). The above combination does not show using a composition that contains a surfactant. Ivanov teaches using a surfactant, column 3, lines 4-10, to improve the strength of a disposable mold form. It would be obvious to one of ordinary skill in the art to modify the above combination to include using a composition that includes a surfactant as shown by Ivanov in order to solve the problem of including sufficient strength in a mold form.

Claim 56 is rejected under 35 U.S.C. 103(a) as being unpatentable over Simor (3585723) in view of Neustadter (3565387) and Wilson (5487663) as applied to claim 45 above, and further in view of Uthoff (5102332). The above combination does not show using a package. Uthoff teaches using a package 2. It would be obvious to one of ordinary skill in the art to modify the above combination to include a package as shown by Uthoff in order to ship and protect the article.

Claim 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over Simor (3585723) in view of Neustadter (3565387) and Wilson (5487663) as applied to claim 45 above, and further in view of Kahn (3949476). The above combination does not show a handle removed from the base. Kahn teaches using a handle 18, column 2, lines 29-34, that as shown, is removed from the base. It would be obvious to one of ordinary skill in the art to modify the above combination to include a handle as shown by Kahn in order to better manipulate the article in the mouth.

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 39 and 42-64 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-54, 56-73, 75 and 79-88 of copending Application No. 10/219,398 in view of Neustadter (3565387). The claims of the '398 application teach using an organic composition that is self-supporting and malleable, however, do not show using a form that is capable of being filled. Neustadter teaches using a form that is capable of being filled. It would be obvious to one of ordinary skill in the art to modify the '398 claims to include a form as shown by Neustadter in order to obtain the desired size and shape. To include a reservoir of material would have been obvious in order to supply the needed filling material. The specific material used is an obvious matter of choice in known plastics to the skilled artisan. To use a handle would have been obvious to one of ordinary skill in the art in order to better manipulate the form. Shaping in the mouth is well known for making adjustment to reconstructive work in the mouth.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### Information Disclosure Statement

The IDS filed March 16, 2007 has been considered and an initialed copy is attached.

## Response to Arguments

Applicant's arguments filed January 16, 2007 have been fully considered but they are not persuasive. Applicant argues that Simor does not show a composition that is organic, however, Simor does teach using a plastic and as such the combination with Neustadter is suggested. With respect to limitation "surfactant system", this language is vary broad because a system could include any material that has some of the properties of a surfactant, further, no specific properties are being claimed, therefore, the combination with Ivanov is obvious because Ivanov is solving the problem of more strength, and as such, is analogous art. With respect to the double patenting rejection, shaping in the mouth is well known in the normal use of the taught composition.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John J. Wilson whose telephone number is 571-272-4722). The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez, can be reached at 571-272-4964). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John J. Wilson
Primary Examiner
Art Unit 3732

\_J.Will

jjw May 6, 2007